

PHENIX

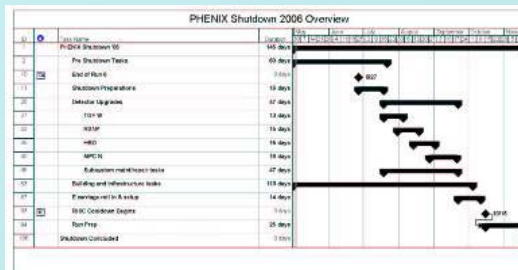
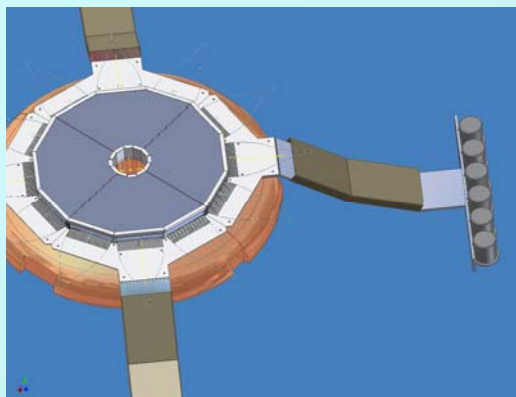
WEEKLY PLANNING

5/11/06

Don Lynch

This Week

- HBD Prototype Electronics
- RXNP Thermocron Tests
- Run support detector maintenance and adjustments
- RXNP Mech Structure Finalized
- Shutdown '06 schedule updates



PHOENIX
Technical Support 2006

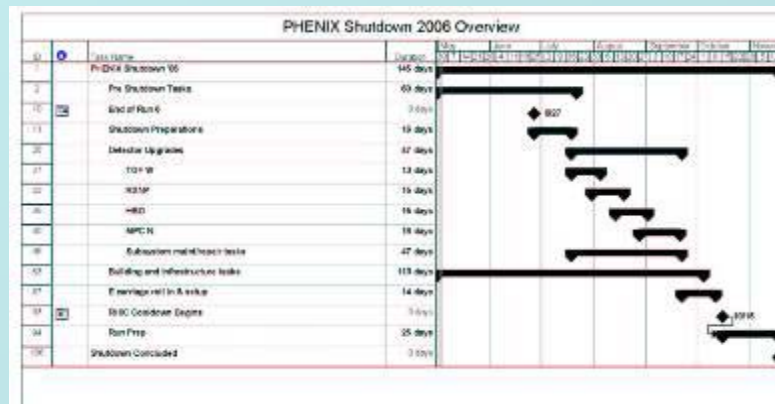
5/11/2006

Weekly Planning Meeting

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PHENIX Shutdown Overview

Task_Name	Duration	Start_Date	Finish_Date
PHENIX Shutdown '06	145 days	5/1/2006	11/17/2006
Pre Shutdown Tasks	60 days	5/1/2006	7/21/2006
End of Run 6	0 days	6/27/2006	6/27/2006
Shutdown Preparations	16 days	6/27/2006	7/18/2006
Detector Upgrades	47 days	7/19/2006	9/21/2006
Planned electrical power outage	5 days	7/24/2006	7/28/2006
Subsystem maint/repair tasks	47 days	7/19/2006	9/21/2006
Building and infrastructure tasks	113 days	5/1/2006	10/4/2006
E carriage roll in & setup	14 days	9/22/2006	10/11/2006
RHIC Cooldown Begins	0 days	10/16/2006	10/16/2006
Run Prep	25 days	10/16/2006	11/17/2006
Shutdown Concluded	0 days	11/17/2006	11/17/2006



Prior to Shutdown

Pre Shutdown Tasks

Mechanical design For RXNP

HBD cable mangement

Receive TOF West detectors from VU

TOF West pre-installation tests (hi bay)

Design mounting/install'n for MPC N

Order/fabricate parts for RXNP/HBD/MPC N

Design piping route for Bridge water

End of Run 6

60 days 5/1/2006 7/21/2006

4 wks 5/1/2006 5/26/2006

4 wks 5/1/2006 5/26/2006

0 days 5/29/2006 5/29/2006

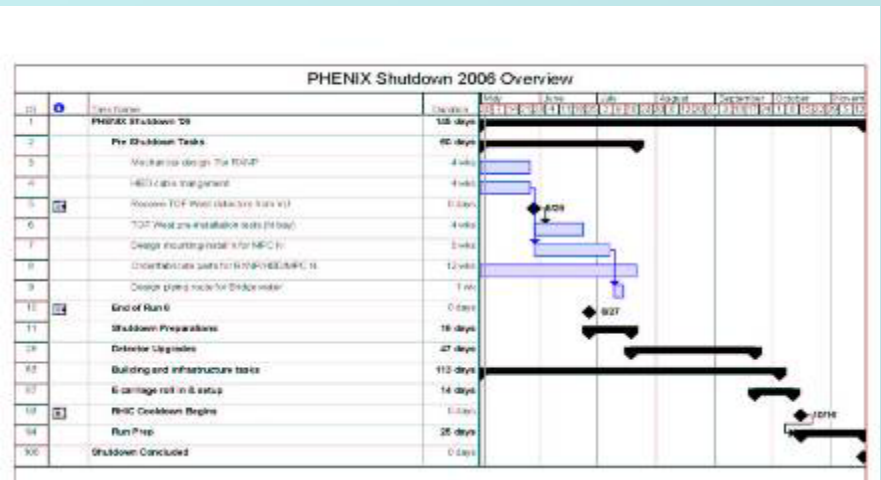
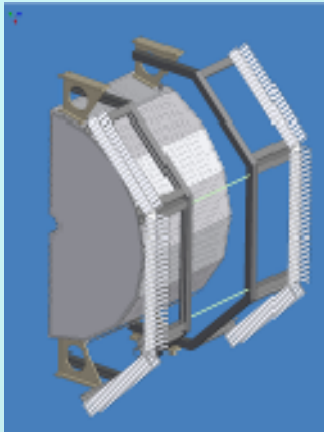
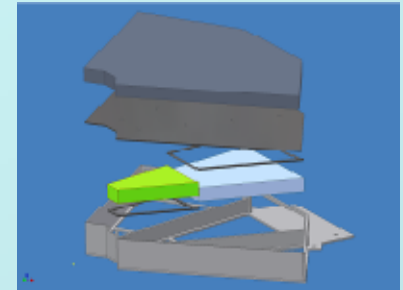
4 wks 5/29/2006 6/23/2006

6 wks 5/29/2006 7/7/2006

12 wks 5/1/2006 7/21/2006

1 wk 7/10/2006 7/14/2006

0 days 6/27/2006 6/27/2006



Shutdown Prep

Shutdown Preparations

Purge gas from all detectors

End of Run party

DAQ tests

Open up & prep

Open rolling woor

Remove rolling wall and plug doors

Take down EC access ladder & fold platforms

Prepare EC for move to AH

Remove beampipe collar

Move MMS full south and restrain

Retract and remove EC to AH

Install 12 ton cart on tracks

Move beampipe collar to AH

Install decking



16 days

6/27/2006

7/18/2006

2 days

6/27/2006

6/28/2006

0 days

6/29/2006

6/29/2006

3 days

6/27/2006

6/29/2006

1 day

6/30/2006

6/30/2006

1 day

6/30/2006

6/30/2006

1 wk

7/3/2006

7/7/2006

1 day

7/10/2006

7/10/2006

3 days

7/10/2006

7/12/2006

1 day

7/11/2006

7/11/2006

1 day

7/12/2006

7/12/2006

2 days

7/13/2006

7/14/2006

1 day

7/17/2006

7/17/2006

1 day

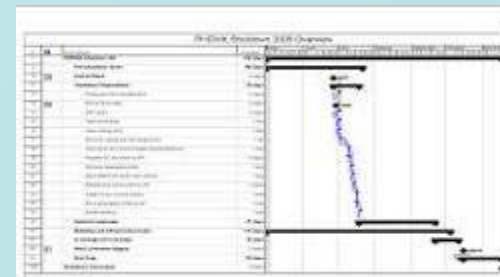
7/17/2006

7/17/2006

1 day

7/18/2006

7/18/2006



PHENIX

Technical Support 2006

5/11/2006

Weekly Planning
Meeting

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Detector Upgrades

TOF W

Prepare installation Fixtures

13 days 7/19/2006 8/4/2006

Mockup test installation

2 days 7/19/2006 7/20/2006

TOF Mechanical installation

1 day 7/21/2006 7/21/2006

TOF Electrical Installation

5 days 7/24/2006 7/28/2006

5 days 7/31/2006 8/4/2006

RXNP

Prepare for installation

15 days 7/31/2006 8/18/2006

Mechanical installation

5 days 7/31/2006 8/4/2006

Electrical installation

5 days 8/7/2006 8/11/2006

5 days 8/14/2006 8/18/2006

HBD

Prepare for installation

15 days 8/14/2006 9/1/2006

Mechanical installation

5 days 8/14/2006 8/18/2006

Electrical installation

5 days 8/21/2006 8/25/2006

5 days 8/28/2006 9/1/2006

MPC N

Move CM south

18 days 8/28/2006 9/20/2006

Prepare for installation

2 days 8/28/2006 8/29/2006

Mechanical installation

5 days 8/30/2006 9/5/2006

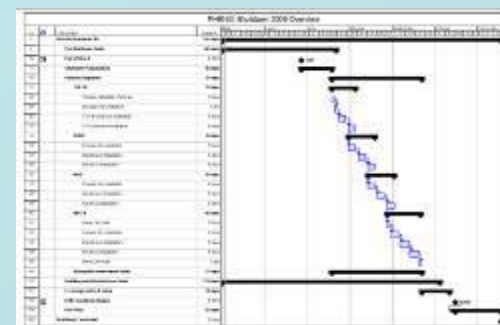
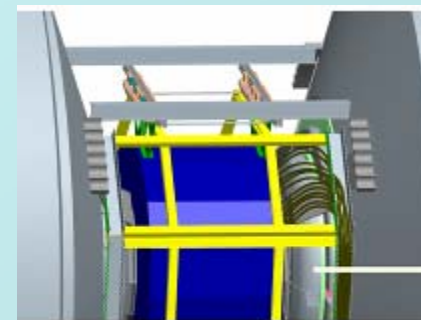
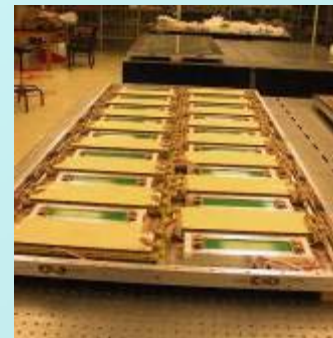
Electrical installation

5 days 9/6/2006 9/12/2006

Move CM North

5 days 9/13/2006 9/19/2006

1 day 9/20/2006 9/20/2006



PHENIX

Technical Support 2006

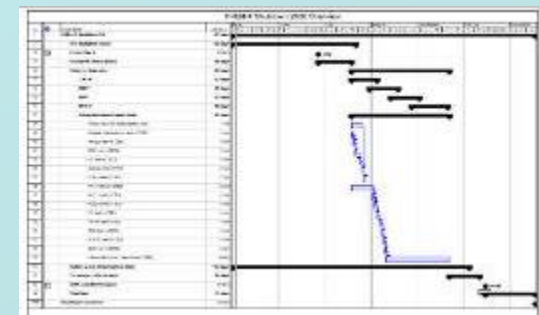
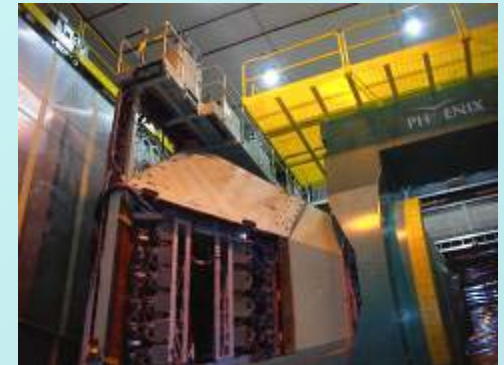
5/11/2006

Weekly Planning
Meeting

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Subsystems

Subsystem maint/repair tasks	47 days	7/19/2006	9/21/2006
Prepare EC for subsystems work	1 wk	7/19/2006	7/25/2006
Magnet subsystems tasks (TBD)	1 day	7/19/2006	7/19/2006
Aerogel tasks (TBD)	1 day	7/20/2006	7/20/2006
BBC tasks (TBD)	1 day	7/21/2006	7/21/2006
DC tasks (TBD)	1 day	7/24/2006	7/24/2006
EmCal tasks (TBD)	1 day	7/26/2006	7/26/2006
FCAL tasks (TBD)	1 day	7/27/2006	7/27/2006
MPC S tasks (TBD)	2 wks	7/19/2006	8/1/2006
MuTr tasks (TBD)	1 day	8/2/2006	8/2/2006
MuID tasks (TBD)	1 day	8/3/2006	8/3/2006
PC tasks (TBD)	1 day	8/4/2006	8/4/2006
RICH tasks (TBD)	1 day	8/7/2006	8/7/2006
TEC tasks (TBD)	60 days	7/17/2006	9/21/2006
TOF E tasks (TBD)	1 day	8/9/2006	8/9/2006
ZDC tasks (TBD)	1 day	8/10/2006	8/10/2006
Other Subsystem tasks tasks (TBD)	6 wks	8/11/2006	9/21/2006



Infrastructure



Building and infrastructure tasks	113 days	5/1/2006	10/4/2006
AH infrastructure tasks	1 day	5/1/2006	5/1/2006
TBD	1 day	5/1/2006	5/1/2006
IR infrastructure tasks	18 days	7/17/2006	8/9/2006
Repair water lines to Bridge	1 day	7/17/2006	7/17/2006
Replace emergency fan louvres	1 wk	7/19/2006	7/25/2006
Rewire/add IR Ceiling lights on emergency power	1 wk	7/26/2006	8/1/2006
Move WC away from Wall	1 day	8/2/2006	8/2/2006
Replace WC sliding platform hoisting cables	1 wk	8/3/2006	8/9/2006
Gas Pad	1 day	5/1/2006	5/1/2006
TBD	1 day	5/1/2006	5/1/2006
Gas Mixing House	1 day	5/1/2006	5/1/2006
Exhaust fan maintenance	1 day	5/1/2006	5/1/2006
TBD	1 day	5/1/2006	5/1/2006
Rack Room	1 day	5/1/2006	5/1/2006
TBD	1 day	5/1/2006	5/1/2006
Counting House	1 day	5/1/2006	5/1/2006
TBD	1 day	5/1/2006	5/1/2006
all other PHENIX infrastructure	113 days	5/1/2006	10/4/2006
Tech area & trailer mold remediation	1 day	5/1/2006	5/1/2006
New raw materials storage container	1 day	5/1/2006	5/1/2006
Repair roof leaks	1 day	5/1/2006	5/1/2006
Install bridge access platforms from EC & eyebrow	2 days	10/3/2006	10/4/2006
TBD	1 day	5/1/2006	5/1/2006

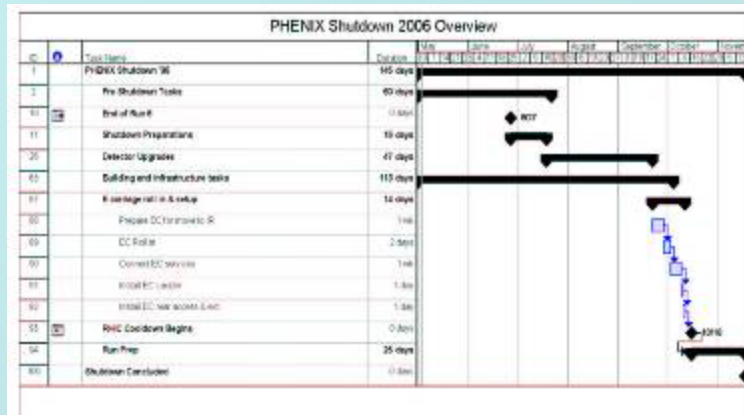
5/11/2006

Weekly Planning
Meeting

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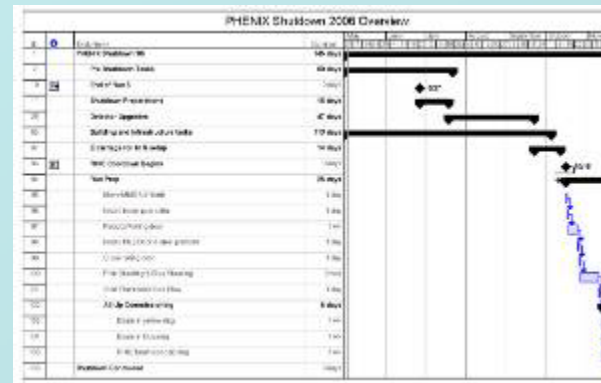
EC Roll-in

E carriage roll in & setup	14 days	9/22/2006	10/11/2006
Prepare EC for move to IR	1 wk	9/22/2006	9/28/2006
EC Roll in	2 days	9/29/2006	10/2/2006
Connect EC services	1 wk	10/3/2006	10/9/2006
Install EC Ladder	1 day	10/10/2006	10/10/2006
Install EC rear access & ext.	1 day	10/11/2006	10/11/2006
RHIC Cooldown Begins	0 days	10/16/2006	10/16/2006

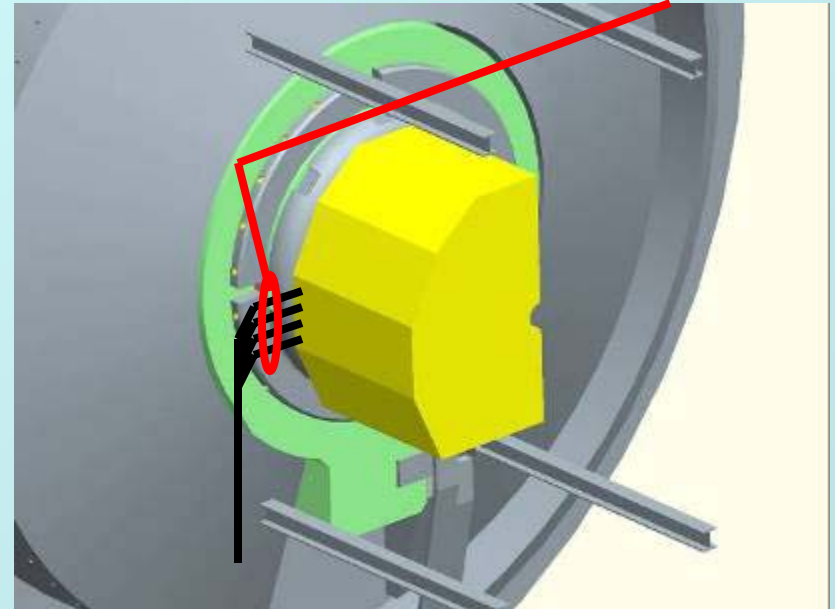
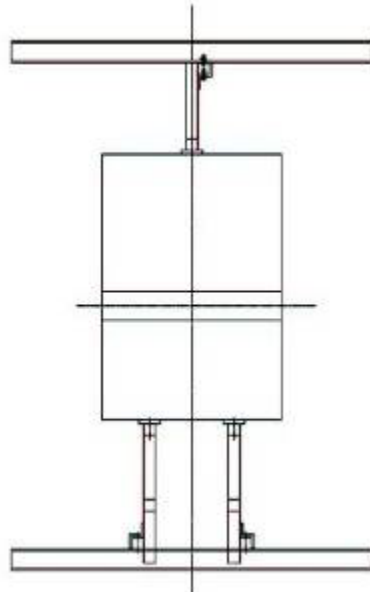
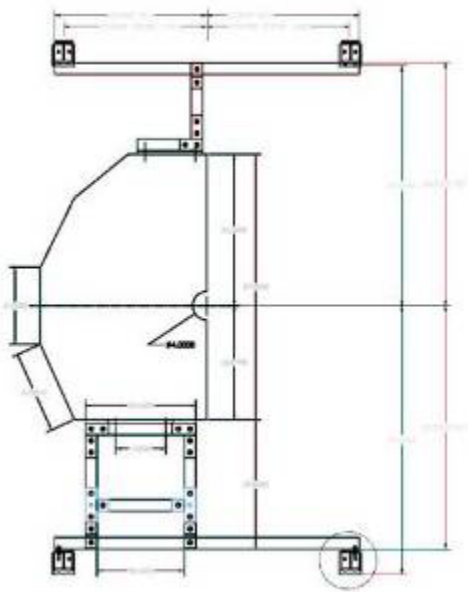


Final Run 7 Prep

RHIC Cooldown Begins	0 days	10/16/2006	10/16/2006
Run Prep	25 days	10/16/2006	11/17/2006
Move MMS full North	1 day	10/16/2006	10/16/2006
Install beam pipe collar	1 day	10/17/2006	10/17/2006
Rebuild Rolling door	1 wk	10/18/2006	10/24/2006
Install Plug Door & steel platform	1 day	10/25/2006	10/25/2006
Close rolling door	1 day	10/26/2006	10/26/2006
Pink Sheeting & Blue Sheeting	2 wks	10/27/2006	11/9/2006
Start Flammable Gas Flow	1 day	11/10/2006	11/10/2006
All Up Commissioning	5 days	11/13/2006	11/17/2006
Beam in yellow ring	1 wk	11/13/2006	11/17/2006
Beam in blue ring	1 wk	11/13/2006	11/17/2006
RHIC beam conditioning	1 wk	11/13/2006	11/17/2006
Shutdown Concluded	0 days	11/17/2006	11/17/2006

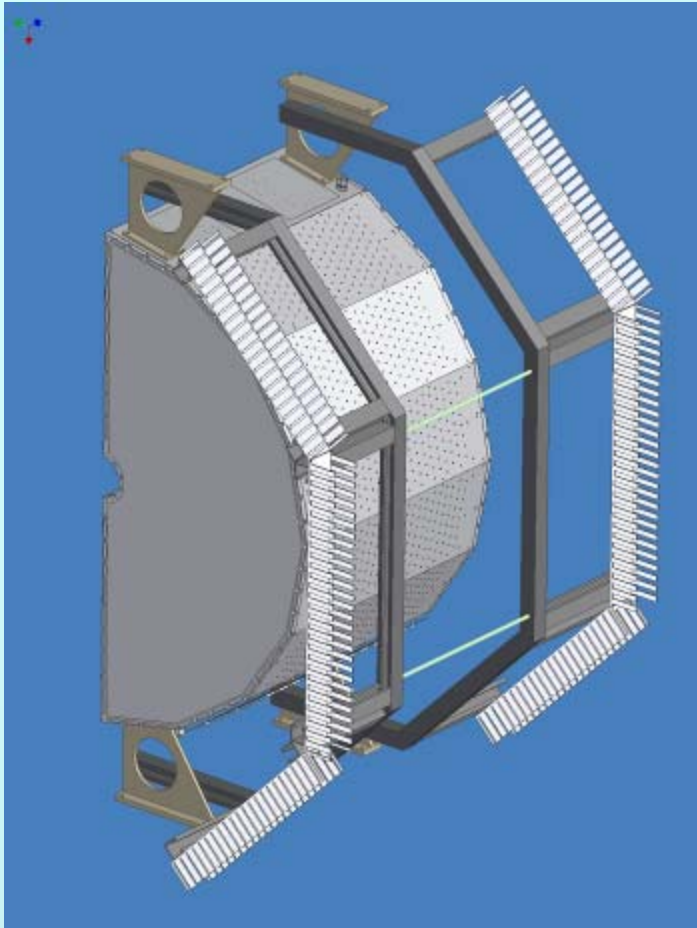


HBD Prototype Run Position Mounting



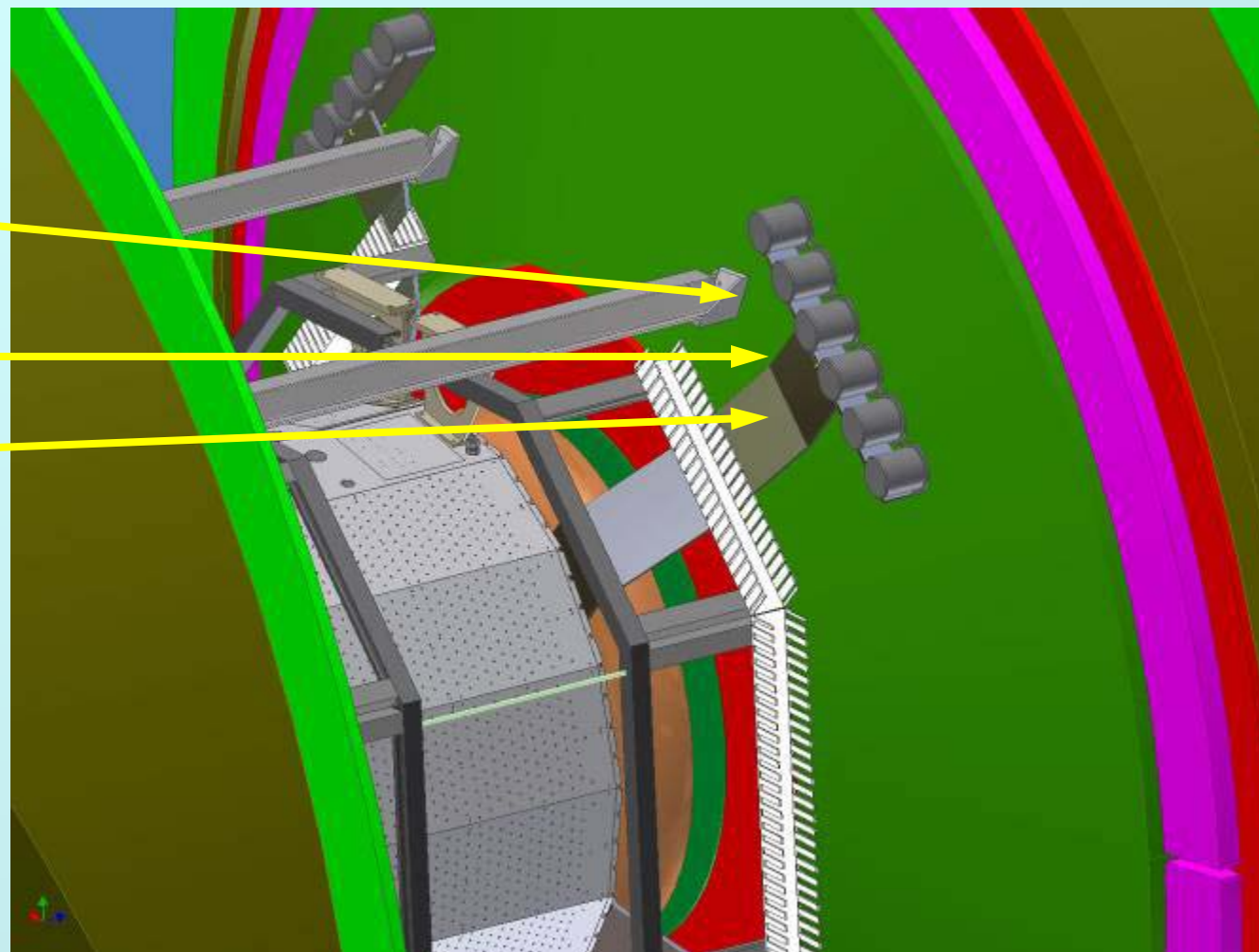
- East or West?
- Remove He Bag
- FG unistrut cross beams
- HBD cable strain relief
- Gas Connections

Next Week



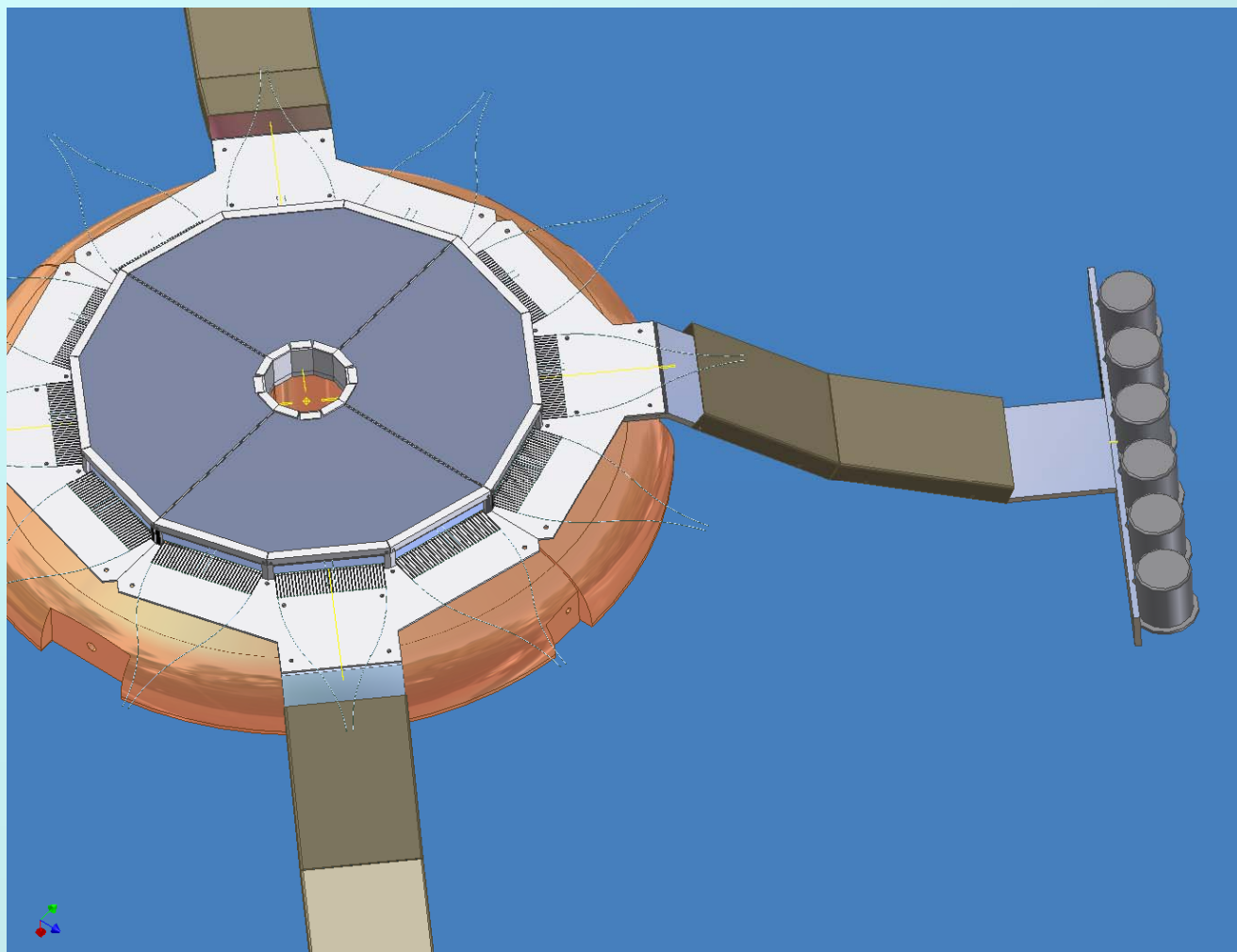
Continue with HBD cable management scheme
HBD electronics tests
Prep for HBD to run position
TEC Connector modifications
TOFW Hi Bay Exp. Safety Review
Shutdown prep

HBD & RXNP



Reaction Plane Detector (RXNP)

- BNL Parts at CS
- Plan for 1 quadrant asap
- Design last 2 alum. Covers after fiber installed in 1st quad.
- Design Review June 15?



Reaction Plane Detector (RXNP)

Lead converter

Inner scintillator (3 per quad)

Outer spacer (6 per quad)

Outer scintillator (3 per quad)

Inner spacer (3 per quad)

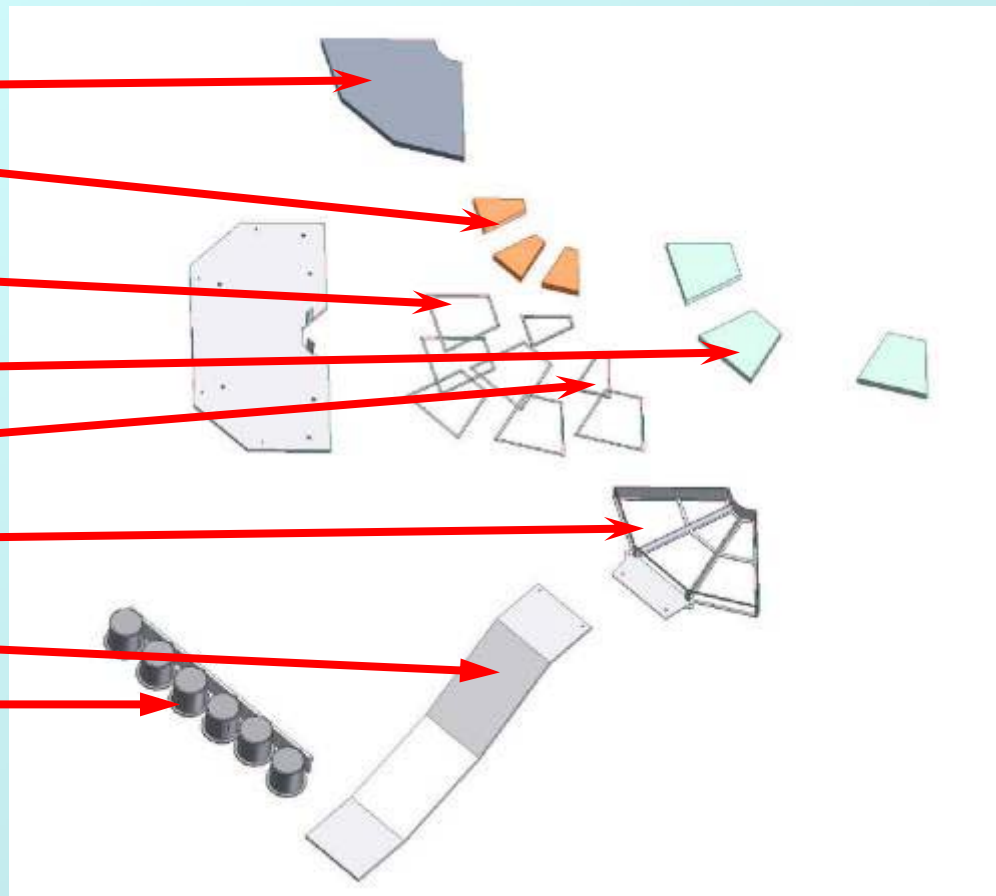
Tray

Arm

PMT Holder

4 quads per assy

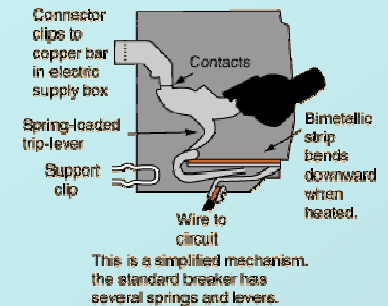
North and South assy's



Breaker Safety

Update on breaker analyses and equipment upgrade plans

Siemens Allis Low Voltage Air Circuit Breaker



Next Access Day

- Expect next access day (8 hrs) to be May 31
- May be shorter controlled accesses before then for HBD move
- Subsystems must arrange for tech assistance prior to access day or don't expect assistance. (see Don Lynch or John Haggerty)
- PHENIX Techs only on CM lift platform unless accompanied by PHENIX Tech (Lift platform is locked and requires removal of C. Pearson tag out)
- Planned:
 - subsystem trouble shooting
 - HBD system tests
 - Misc. trouble shooting

Other Projects

TOF West

- Expect detectors to be at BNL by June 5. May want to change run location: split top and bottom between sector 1 and 2

MPC North

- Design efforts ongoing at UI. Design review June 15.

Muon RPC

- Nothing New

Beampipe design

- Nothing new design concept in progress

New CM Crane

- Nothing new

Engineering Documentation

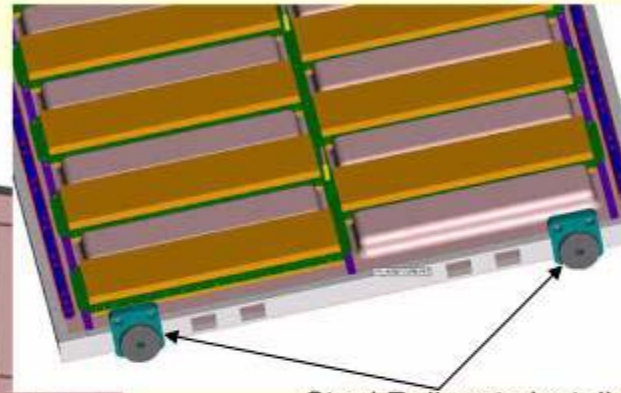
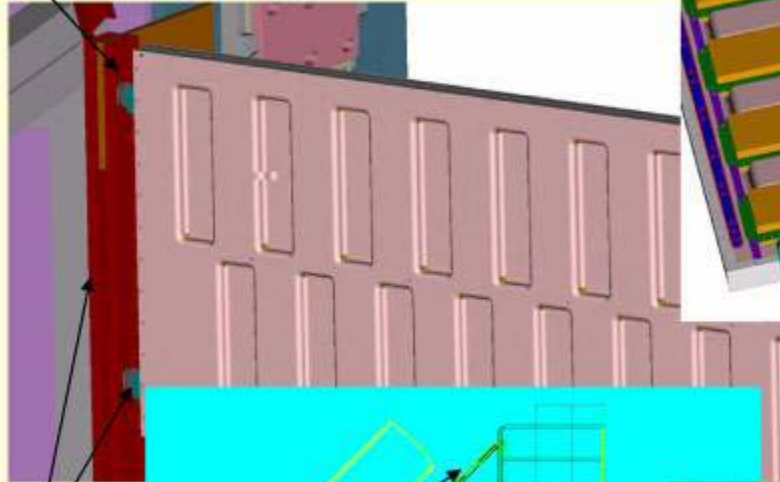
- Nothing new

Bridge Electronics

- Increase # racks 9-12?

Installation

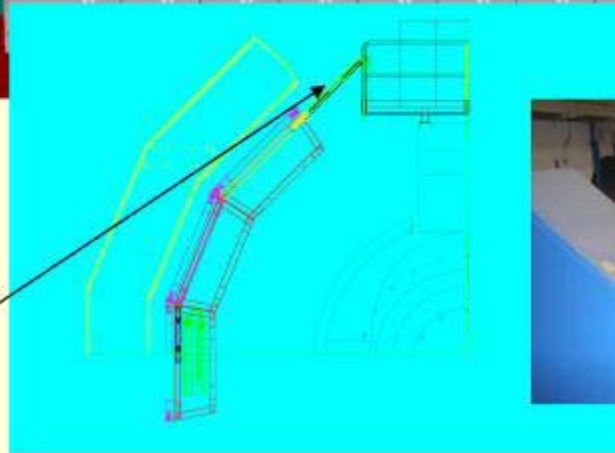
Alum. Channel
"Guide Track"



Steel Rollers to install via
channel/rails then serve as
mounting points for detector
assembly

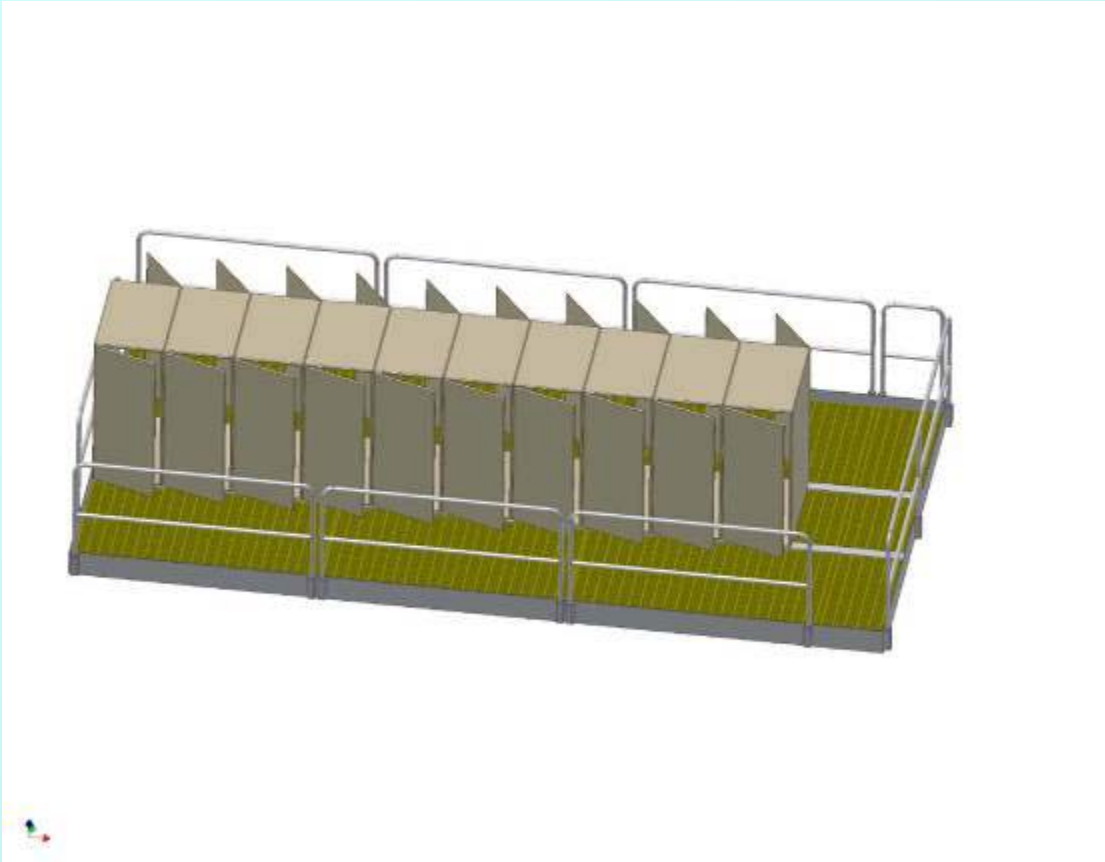
Rollers

Rail extension
to Bridge for
staging of
installation.



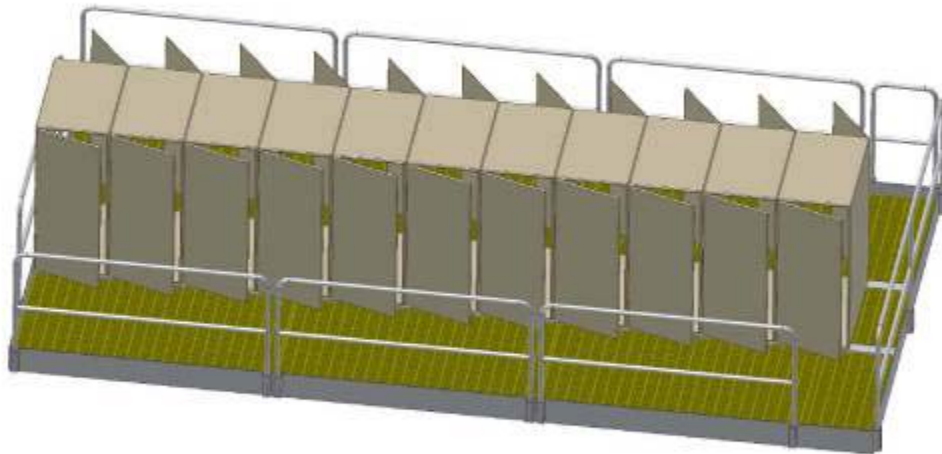
Remove seismic
restraints to
insert "garage
door"

Bridge Rack Layout



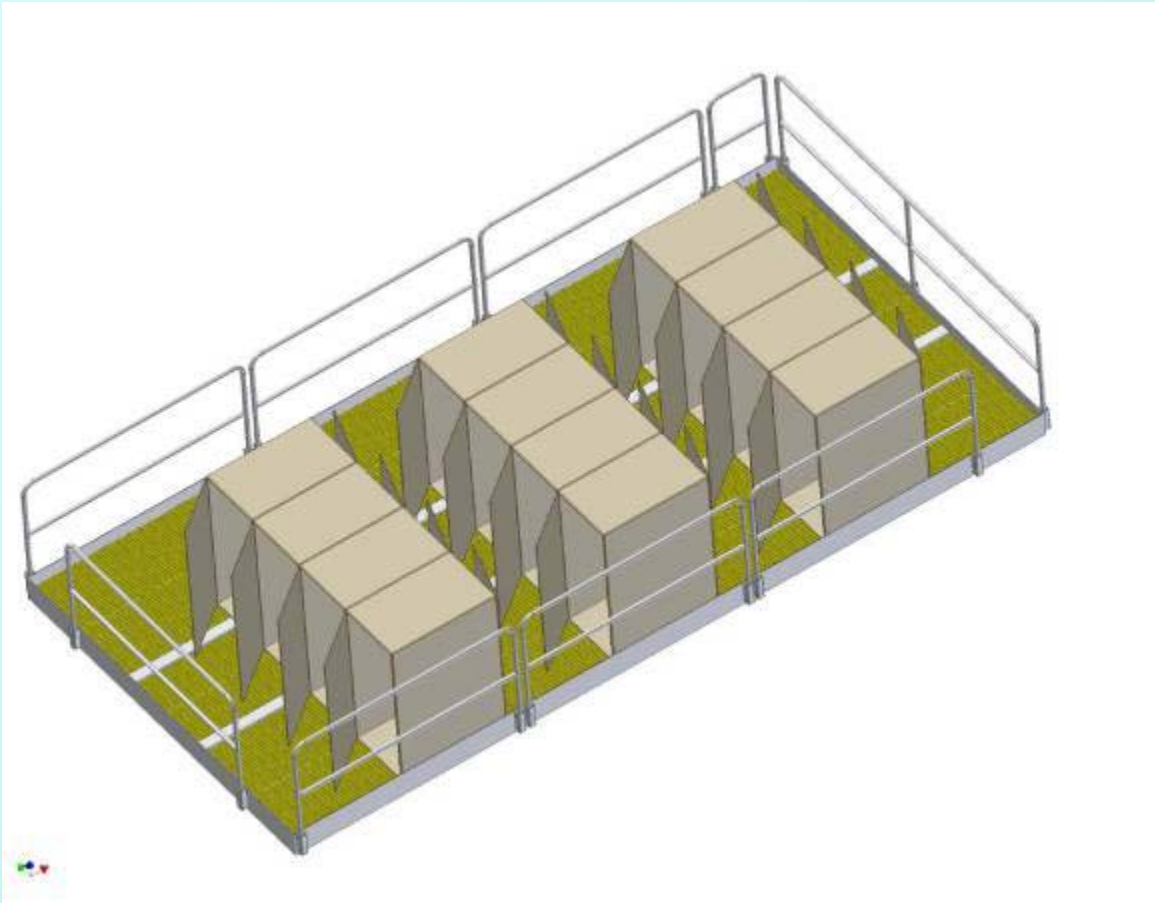
10 Racks Each
55-1/4x24x39-1/2,
HxWxD
48.75" clearance in
walkways, 39.25"
clearance at end

Bridge Rack Layout



11 Racks Each
55-1/4x24x39-1/2,
HxWxD
48.75" clearance in
walkways, 15.25"
clearance at end

Bridge Rack Layout



12 Racks Each
55-1/4x24x39-1/2,
HxWxD
40" clearance in all
walkways

C-A Tasks

Current Tasks

- General run support
- New storage trailer (as promised)
- Fix roof leaks

Tasks for Shutdown 2006

- See Shutdown schedule



MOLD Problems



Shutdown 2006 key dates

- Run ends June 26
- End of Run Party June 29
- Open Shield wall June 30
- Prep and move EC July 10
- Install TOF W (start) July 19
- **Lost week for planned electrical outage July 24-28**
- Install RXNP (start) July 31
- Install HBD (start no later than) Aug 14 (possibly as early as Aug 1)
- Install MPC North (start no later than) Aug 28
- Start EC roll in Sep. 22
- Start RHIC Cooldown Oct. 15
- Start Physics data taking Nov. 17

Subsystems: Get requests for maintenance in early to get on the schedule

Where To Find PHENIX Technical Info

Links for the shutdown schedule as well as weekly planning meeting slides, long term planning, pictures, videos and other technical info can be found from the web site:

http://www.phenix.bnl.gov/WWW/INTEGRATION/ME&Integration/DRL_SSint-page.htm